

CLAIMS

1. A high-pressure fuel supplying apparatus comprising

5 a high-pressure fuel discharging system having a high-pressure pump, which is driving by an output torque of an internal-combustion engine, for discharging a high-pressure fuel to a common rail which accumulates the high-pressure fuel,

10 a low-pressure fuel supplying system having a feed pump for supplying a fuel from a fuel tank to the high-pressure pump, and

15 a fuel supply control system having a fuel supply control valve for adjusting the amount of the fuel to be supplied from the feed pump to the high-pressure pump,

wherein the low-pressure fuel supplying system, the fuel supply control system and the high-pressure fuel discharging system are independently provided as separate pieces, and the low-pressure fuel supplying system, the fuel supply control system and the high-pressure fuel discharging system are connected by a fuel pipe.

2. A high-pressure fuel supplying apparatus comprising

25 a high-pressure fuel discharging system having a high-pressure pump, which is driving by an output torque of an internal-combustion engine, for discharging a high-pressure fuel to a common rail which accumulates the high-pressure fuel,

30 a low-pressure fuel supplying system having a feed pump for supplying a fuel in a fuel tank to the high-pressure pump, and

35 a fuel supply control system having a fuel supply control valve for adjusting an amount of the fuel to be supplied from the feed pump to the high-pressure pump,

wherein the low-pressure fuel supplying

system and the fuel supply control system are integrally provided, and the high-pressure fuel discharging system is independently provided as a separate piece, and the fuel supply control system and the high-pressure fuel
5 discharging system are connected by a fuel pipe.

3. A high-pressure fuel supplying apparatus according to claim 1, wherein the fuel supply control valve is an electromagnetic fuel supply control valve which opens/closes a fuel passage for feeding the fuel to
10 the high-pressure pump, in response to an electric signal.

4. A high-pressure fuel supplying apparatus according to claim 1, wherein the feed pump is driven by an electric motor.

15 5. A high-pressure fuel supplying apparatus according to claim 1, wherein the feed pump is driven by the internal combustion engine or the high-pressure pump, through a power transmitting means such as a gear or a chain.